

Figure 1

INVENTOR

John P. Forts

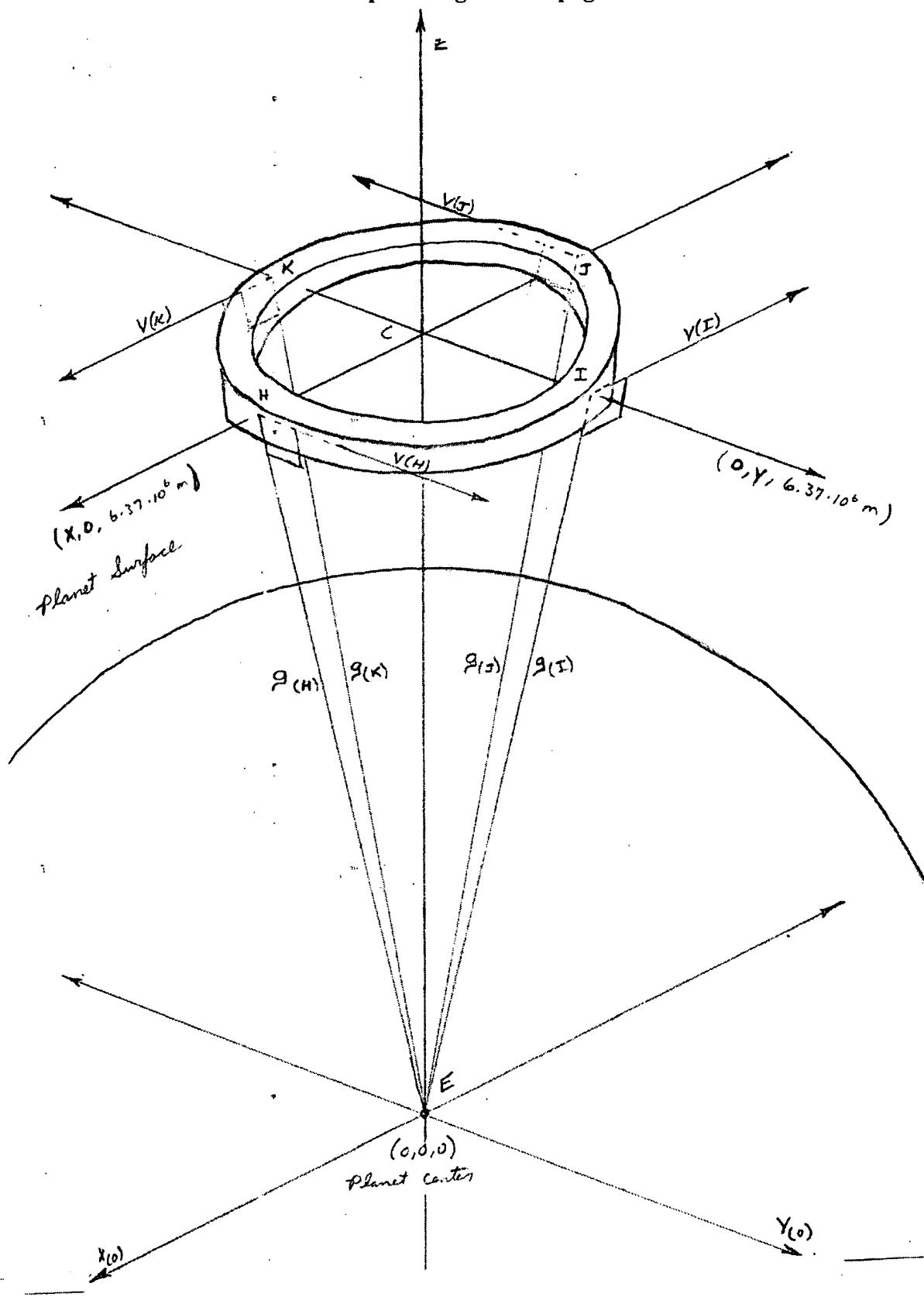


Figure 2

INVENTOR

John P. Fisher

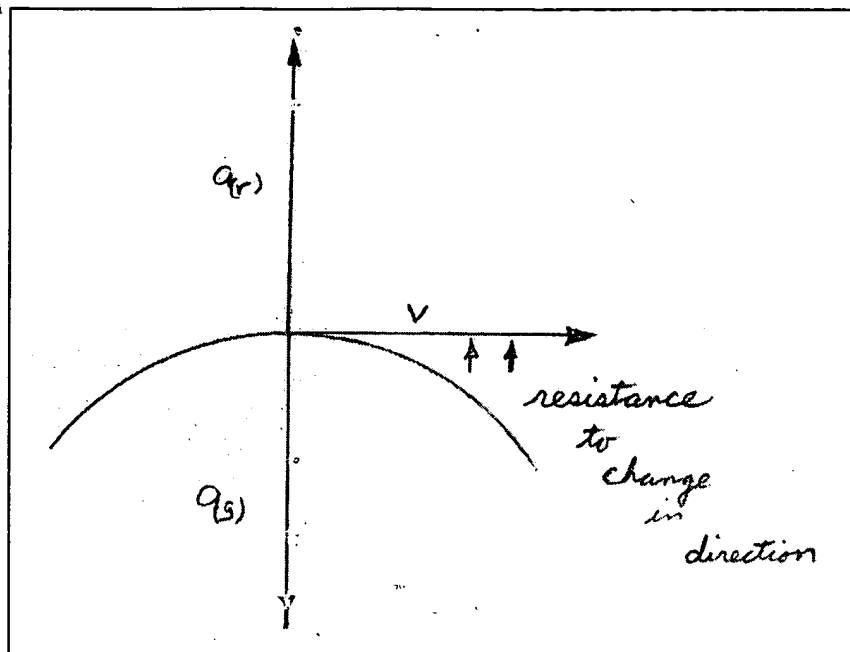


Figure 3

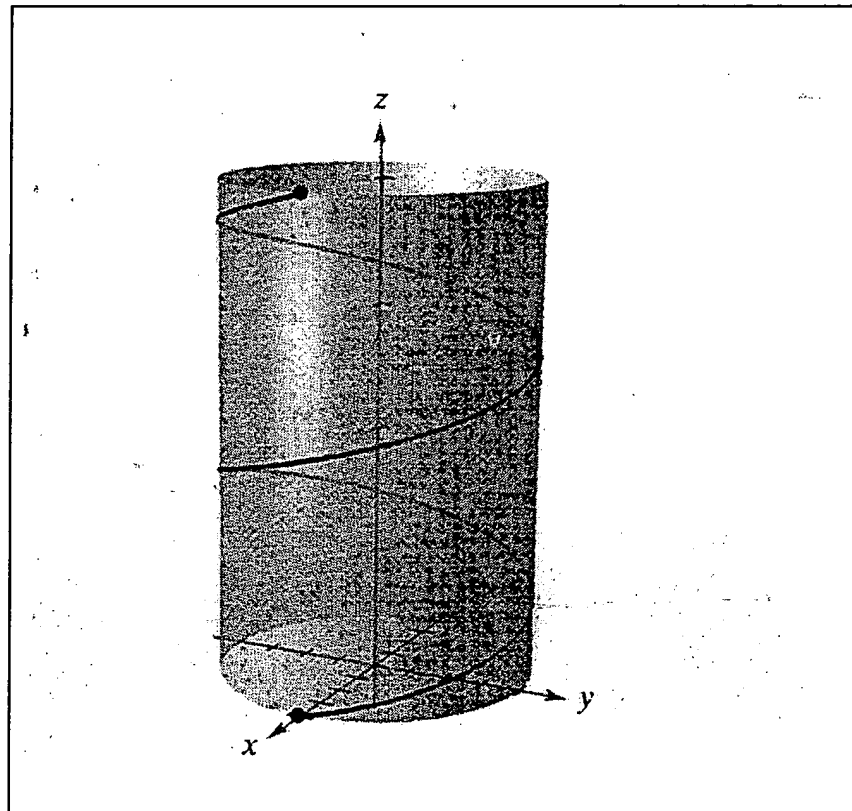


Figure 4

Inventor

John P. Foster

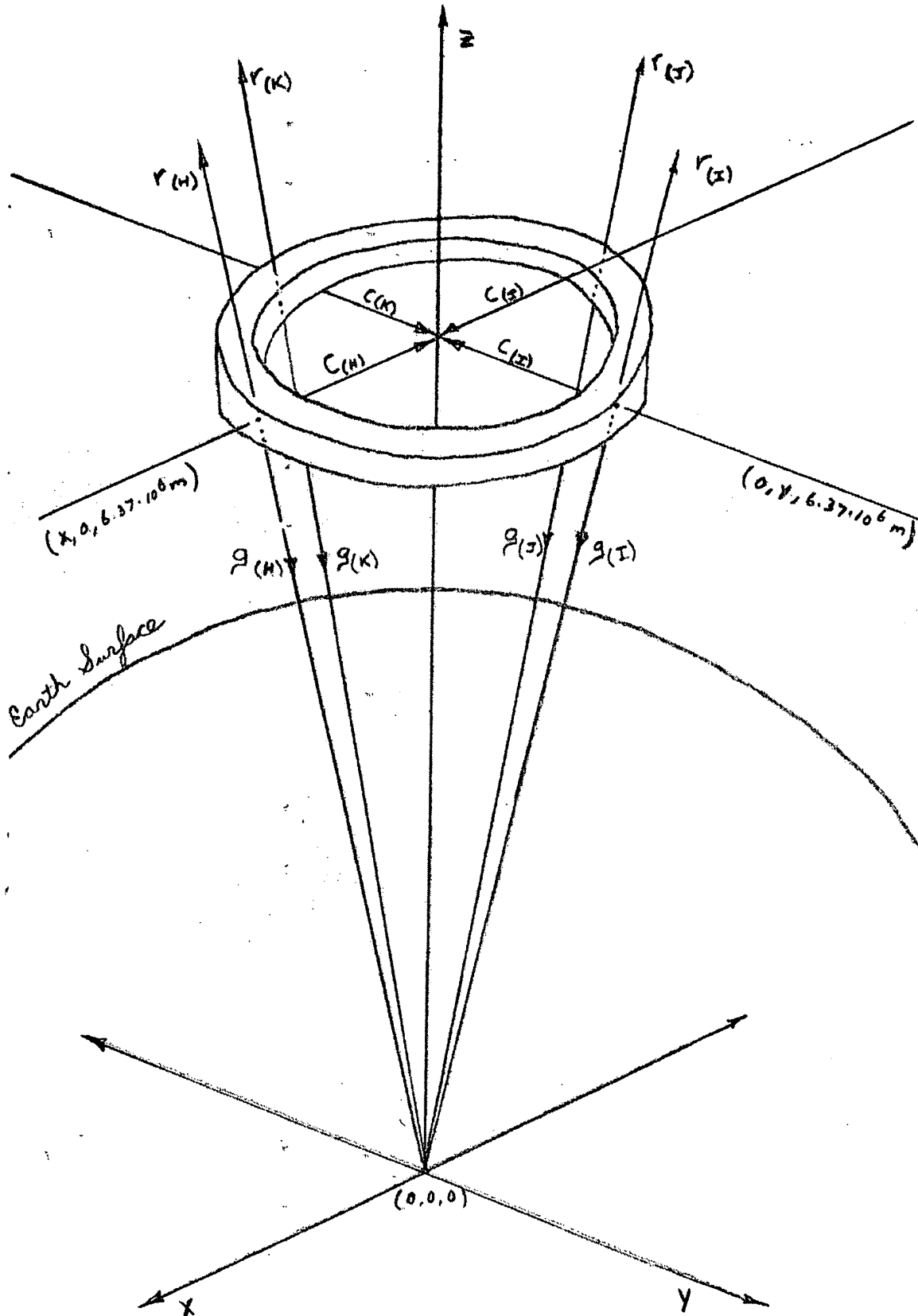


Figure 5

INVENTOR

John P. Foster

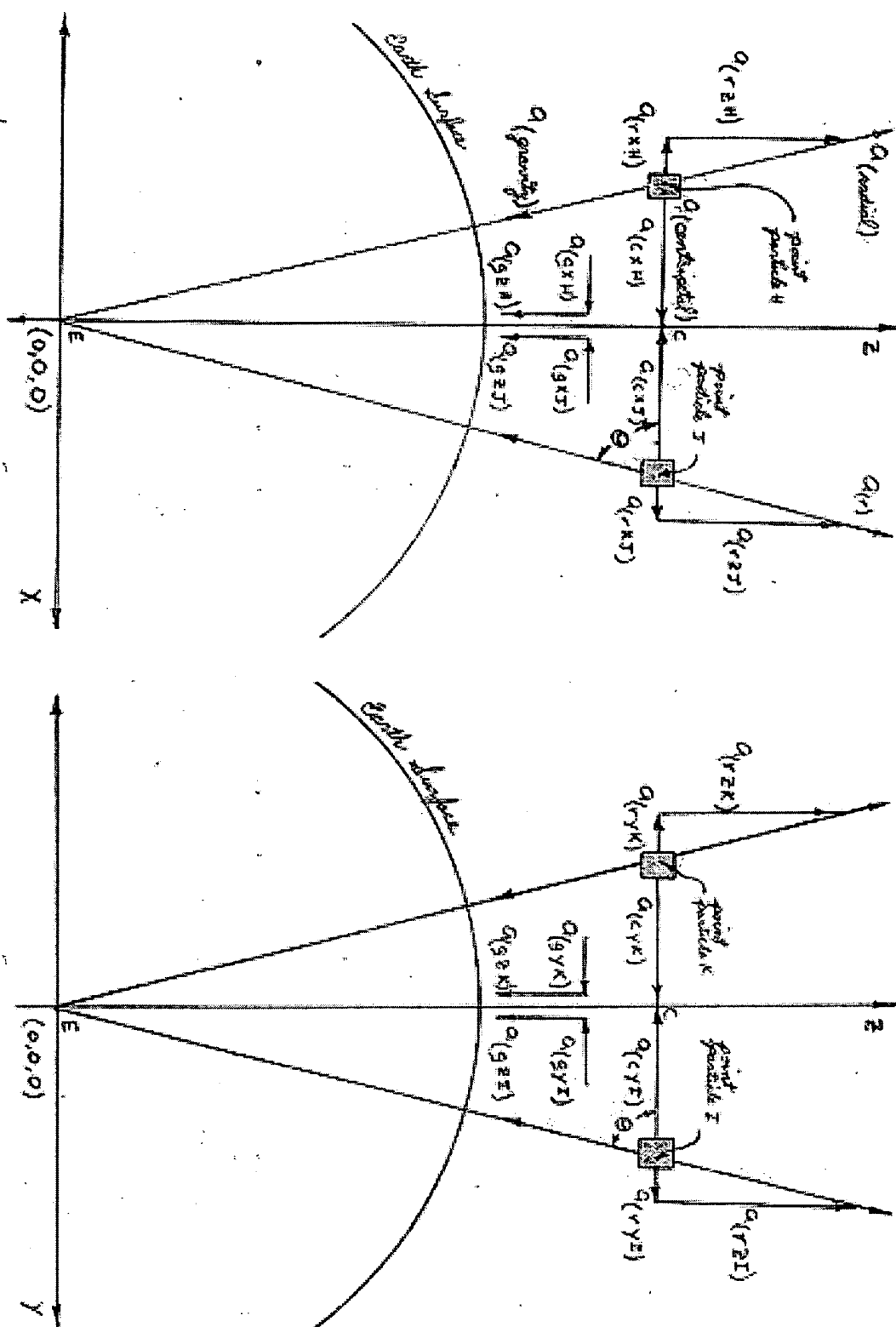


Figure 6

INVENTOR

John P Foster

$$F_{(C)} = F_{(H)} + F_{(I)} + F_{(J)} + F_{(K)}$$

On the x,z plane

$$F_{(H)} = \frac{1}{4}m \times a_{(H)} = \frac{1}{4}m \times [a_{(rxH)} i + a_{(rxH)} k + a_{(cxH)} i + a_{(czH)} k + a_{(gxH)} i + a_{(gzH)} k]$$

$$F_{(I)} = \frac{1}{4}m \times a_{(I)} = \frac{1}{4}m \times [a_{(rxI)} i + a_{(rxI)} k + a_{(cxI)} i + a_{(czI)} k + a_{(gxI)} i + a_{(gzI)} k]$$

On the y,z plane

$$F_{(J)} = \frac{1}{4}m \times a_{(J)} = \frac{1}{4}m \times [a_{(ryJ)} j + a_{(ryJ)} k + a_{(cyJ)} j + a_{(czJ)} k + a_{(gyJ)} j + a_{(gzJ)} k]$$

$$F_{(K)} = \frac{1}{4}m \times a_{(K)} = \frac{1}{4}m \times [a_{(ryK)} j + a_{(ryK)} k + a_{(cyK)} j + a_{(czK)} k + a_{(gyK)} j + a_{(gzK)} k]$$

Expand the equations and sum, such that component parts equal

$$\text{radial acceleration} = v^2/r_{\text{earth+alt}} \times (\text{ratio of sides})$$

$$\text{Centripetal acceleration} = v^2/r_{\text{ring}} \times (\text{ratio of sides})$$

$$\text{Gravity acceleration} = (a_g) \times (\text{ratio of sides})$$

$$F_{(H)} = \frac{1}{4}m [v^2_{/EH}(CH/EH)i + v^2_{/EH}(EC/EH)k + v^2_{/CH}(HC/HC)i + 0k + (a_g)_{HE}(HC/HE)i + (a_g)_{HE}(CE/HE)k]$$

$$F_{(I)} = \frac{1}{4}m [v^2_{/EI}(CJ/EJ)i + v^2_{/EI}(EC/EJ)k + v^2_{/CJ}(JC/CJ)i + 0k + (a_g)_{JE}(JC/IE)i + (a_g)_{JE}(CE/IE)k]$$

$$F_{(J)} = \frac{1}{4}m [v^2_{/EI}(CI/EI)j + v^2_{/EI}(EC/EI)k + v^2_{/CI}(IC/CI)j + 0k + (a_g)_{IE}(IC/IE)j + (a_g)_{IE}(CE/IE)k]$$

$$F_{(K)} = \frac{1}{4}m [v^2_{/EK}(CK/EK)j + v^2_{/EK}(EC/EK)k + v^2_{/CK}(KC/CK)j + 0k + (a_g)_{KE}(KC/KE)j + (a_g)_{KE}(CE/KE)k]$$

$$F_{(C)} = \frac{1}{4}m \{ [0i+0j] + 4[v^2/(r_{\text{planet}} + \text{alt})] (EC/(r_{\text{planet}} + \text{alt})k) + [0i+0j] + 0k + [0i+0j] + [4(a_g)CE/(r_{\text{planet}} + \text{alt})k] \}$$

$$F_{(C)} = m [v^2/(r_{\text{planet}} + \text{alt}) + a_g] (EC/(r_{\text{planet}} + \text{alt})k) = m_{\text{particle stream}} a_{(z)} = \text{VERTICAL THRUST}$$

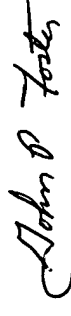
$$a_{(z)} = [v^2/(r_{\text{planet}} + \text{alt}) + a_g] k \times \sin(\theta)$$

$$\text{where } \sin(\theta) = \text{opp/hyp} = [(r_{\text{doughnut center}})/(r_{\text{point particle}})] \approx \sin(90^\circ) \approx 1$$

$$\text{Therefore; } a_{(z)} \approx v^2/r + a_g$$

Figure 7

Inventor



Theoretic example, Thrust by Gyroscopic Lift with a Particle Accelerator:

50 milligrams of ionized particles, continuously traveling along a circular path at 60% velocity of light should provide 2.54×10^5 Newtons of upward thrust.

$F_{\text{particles}} = m_{\text{particles}} \times a_z$,
m measured in Kg

$$F = m \times [v^2 / (r_{\text{planet}} + \text{alt}) + g]$$

$$F = 50 \times 10^{-6} \times [(2.998 \times 10^8 \times .60)^2 / (6.371 \times 10^6) - 9.821] = 253,938 \text{ N}$$

Figure 8**Theoretic example, Vertical Acceleration of Ship with Particle Accelerators**

$$F_{\text{particles}} + F_{\text{gravity}} = F_{\text{ship}},$$

$$F_{\text{particles}} + F_{\text{gravity}} = m_{\text{ship}} \times a_{\text{ship}}$$

$$F_{\text{particles}} + (m_{\text{ship}} \times g) = m_{\text{ship}} \times a_{\text{ship}}$$

$$[F_{\text{particles}} + (m_{\text{ship}} \times g)] / m_{\text{ship}} = a_{\text{ship}}$$

$$[(2 \times 2.54 \times 10^5) + (40 \times 10^3 \times 9.821)] / (40 \times 10^3) = 2.879 \text{ m/s}^2$$

$$2.879 \text{ m/s}^2 / 9.821 \text{ m/s}^2 = .2931 \text{ g's}$$

Figure 9**INVENTOR***John P. Foster*